

# DANDAN SHAN

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## EDUCATION

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<b>University of Michigan - Ann Arbor, MI, USA</b> Ph.D. student, Computer Science and Engineering	<i>Aug 2020 - Present</i>
<b>University of Michigan - Ann Arbor, MI, USA</b> M.S.E., Electrical and Computer Engineering	<i>Aug 2018 - May 2020</i>
<b>Soochow University, Jiangsu, China</b> B. Eng., Software Engineering	<i>Sep 2014 - Jun 2018</i>

## PUBLICATION

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**Reconstructing Hands in 3D with Transformers**  
Georgios Pavlakos, **Dandan Shan**, Ilija Radosavovic, Angjoo Kanazawa, David Fouhey, Jitendra Malik.  
Under Submission.

**Towards A Richer 2D Understanding of Hands at Scale**  
Tianyi Cheng\*, **Dandan Shan\***, Ayda Sultan Hassen, Richard Higgins, David Fouhey  
NeurIPS 2023.

**EPIC-KITCHENS VISOR Benchmark: Video Segmentations and Object Relations**  
Ahmad Darkhalil\*, **Dandan Shan\***, Bin Zhu\*, Jian Ma\*, Amlan Kar, Richard Higgins, Sanja Fidler, David Fouhey, Dima Damen.  
NeurIPS 2022 Datasets and Benchmarks.

**COHESIV: Contrastive Object and Hand Embedding Segmentation In Video**  
**Dandan Shan\***, Richard Higgins\*, David Fouhey.  
NeurIPS 2021.

**Understanding Human Hands in Contact at Internet Scale**  
**Dandan Shan**, Jiaqi Geng\*, Michelle Shu\*, David Fouhey.  
CVPR 2020 (Oral).

## WORK EXPERIENCE

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<b>Research Scientist Intern, Media Intelligence Lab, Adobe Inc.</b> <i>Advisor: Jimei Yang, Oliver Wang</i>	May 2022 - Nov 2023
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Worked on consistent video editing on human interaction videos using layered neural atlases.

<b>System Development Intern, CalmCar Vision System Co.</b> <i>Mentor: Shiqing Cheng</i>	Aug 2017 - May 2018
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Worked on a real-time traffic lights state recognition system which has been used in the Advanced Driver Assistance System in cooperation with SAIC Motor Co. Ltd.

## TEACHING EXPERIENCE

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<b>AI4ALL Summer Program, University of Michigan</b> <i>Project Instructor</i>	2020, 2021
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Designed and instructed vision projects on Object Detection and Virtual Background.

## TALK

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Towards A Richer 2D Understanding of Hands at Scale  
Understanding Human Hands in Contact at Internet Scale

CVPR2023 4DHOI Workshop  
Aibee Inc., Jul 2021

## PROFESSIONAL SERVICE

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### Reviewer

Conference: CVPR, ECCV, ICCV, NeurIPS, NeurIPS Datasets and Benchmarks, ICLR  
Journal: Pattern Recognition

### Organizer

Hand-Object Segmentation (HOS) Challenge in EPIC-KITCHENS Challenge 2023

## HONORS AND SCHOLARSHIP

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Outstanding Reviewer Award	ECCV2022
Rackham International Students Fellowship (University of Michigan)	2021
Outstanding Graduate (Soochow University)	Jun 2018
Excellent Thesis (Soochow University)	Jun 2018
Grand Prize Excellent Student Scholarship (Soochow University)	Oct 2017
Innovation Award (Soochow University)	Oct 2017
Special Award for Social Work (Soochow University)	2015, 2016, 2017
Comprehensive Performance Awards (Soochow University)	2015, 2016, 2017

## OUTREACH

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Social Media Student Takeover, Michigan AI Lab, University of Michigan	Jul 2023 - Aug 2023
Organizer, AI seminar, University of Michigan	Aug 2021 - May 2022
Coordinator, Computer Vision Reading Group, University of Michigan	Aug 2020 - May 2021
Webmaster, Ensemble of CSE Ladies, University of Michigan	Aug 2020 - Present
Mentor, Ensemble of CSE Ladies, University of Michigan	Sep 2019 - Dec 2019
Web designer and maintainer, Vision@UMich official webpage	Sep 2019 - Present
Volunteer, AI Symposium at the University of Michigan	Oct 2019
Web maintainer, TEDxSuzhou official webpage	Sep 2016 - Jan 2017
Social Investigation on Children's Education Status in Ningxia Hui Autonomous Region	Jul 2015